. International application No.

PCT/AU2004/000970

	· — — · · · · · · · · · · · · · · · · ·				
A.	CLASSIFICATION OF SUBJECT MATTE	R			
Int. Cl. 7:	B63H 3/04, 20/14, F16H 25/20	•			
According	o International Patent Classification (IPC) or to	both national classification and IPC	·		
B.	FIELDS SEARCHED				
	cumentation searched (classification system follower				
Documentati	on searched other than minimum documentation to t	he extent that such documents are included in the fields searc	hed		
Electronic da DWPI IPC	ta base consulted during the international search (na : B63H (all), B64C 11/(all) with keyword.	me of data base and, where practicable, search terms used) s (propeller, pitch, adjust, push, lock, surface, incl	ine)		
C.	DOCUMENTS CONSIDERED TO BE RELEVA	NT			
Category*	Citation of document, with indication, when	re appropriate, of the relevant passages	Relevant to claim No.		
Α	SU 716906 A (DUBINSKII ET AL.) 2	5 February 1980			
A	US 5967753 A (MULLER) 19 October	1999			
	·				
. A	US 4643643 A (OTTO) 17 February				
Α	US 3912417 A (HERBERT) 14 Octobe	r 1975			
<del></del>	Further documents are listed in the continu	ation of Box C X See patent family anno	ex		
"A" docum	categories of cited documents: ent defining the general state of the art which is sidered to be of particular relevance	later document published after the international filing date or proconflict with the application but cited to understand the princip	iority date and not in		
	application or patent but published on or after the "X' tional filing date	underlying the invention  document of particular relevance; the claimed invention cannot or cannot be considered to involve an inventive step when the			
	ent which may throw doubts on priority claim(s) "Y' h is cited to establish the publication date of	alone document of particular relevance; the claimed invention cannot involve an inventive step when the document is combined with			
another "O" docume	citation or other special reason (as specified) ent referring to an oral disclosure, use, exhibition	such documents, such combination being obvious to a person sl			
"P" docume	means ont published prior to the international filing date r than the priority date claimed	document member of the same patent family			
	ual completion of the international search	Date of mailing of the international search report			
31 August 2			3 SEP 2004		
	ling address of the ISA/AU N PATENT OFFICE	Authorized officer			
PO BOX 200,	WODEN ACT 2606, AUSTRALIA	ZBIGNIEW BIELAWSKI			
	: pct@ipaustralia.gov.au (02) 6285 3929	Telephone No : (02) 6283 2218			
· · · · · · · · · · · · · · · · · · ·					

International application No.

PCT/AU2004/000970

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages					
. A	US 2981338 A (T. HINDMARCH) 25 April 1961					
		}				
		· i				

International application No.

PCT/AU2004/000970

Box No. II	Observations whose contain plains were found arranged by Continuation (City 2 of 5 and 1 and	
B0X NO. 11	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This internates reasons:	ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following	
1.	Claims Nos.:	
	because they relate to subject matter not required to be searched by this Authority, namely:	
2.	Claims Nos.:	
·	because they relate to parts of the international application that do not comply with the prescribed requirements to su an extent that no meaningful international search can be carried out, specifically:	ıch
	Claims Nos.:	
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4	(a)
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	
	tional Searching Authority found multiple inventions in this international application, as follows:  Extra sheet	
Doc inc		
	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
	As only some of the required additional search fees were timely paid by the applicant, this international search report	t
<u> </u>	covers only those claims for which fees were paid, specifically claims Nos.:	
,	1-12 and 43-50	
		i
	·	
	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	S
Remark on :	Protest The additional search fees were accompanied by the applicant's protest.	
	X No protest accompanied the payment of additional search fees.	
	1.0 process accompanied the physicist of additional scarcii (ccs.	

International application No.

PCT/AU2004/000970

Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

#### Continuation of Box No: III

The international application does not comply with the requirements of unity of invention because it does not relate to one invention or to a group of inventions so linked as to form a single general inventive concept. In coming to this conclusion the International Searching Authority has found that there are different inventions as follows:

- 1. Claims 1-12 are directed to a marine propulsion system wherein <u>rotating a screw threaded nut moves a push</u> member which in turn moves a propeller blade coupling mechanism therefore adjusting the blade's pitch. It is considered that the underlined features comprise a first "special technical feature".
- 2. Claims 13-26 are directed to a marine propulsion system comprising emergency pitch adjuster (comprising a number of features) setting a propeller blade's pitch to a predetermined position in the event of a control mechanism breakdown. It is considered that said emergency pitch adjuster comprises a second "special technical feature".
- 3. Claims 27-42 are directed to a stern drive comprising a <u>driver for rotating a control shaft via twin gears set interconnected via a flexible drive element to adjust a propeller blade's pitch.</u> It is considered that the underlined features comprise a third "special technical feature".
- 4. Claims 43-50 are directed to a propeller comprising a propeller blade's pitch adjusting mechanism rotating the blade's base and the base unlocking/locking mechanism. It is considered that said unlocking/locking mechanism comprises a fourth "special technical feature".
- 5. Claims 51-66 are directed to a marine propulsion system comprising a blade supporting mechanism comprising an eccentric in engagement with a pin and blade's biasing element for biasing the eccentric and the pin to an equilibrium position wherein a pitch adjusting mechanism adjust the blade's pitch via the eccentric whereupon the biasing element locks the blades in the adjusted position. It is considered that said blade supporting mechanism comprises a fifth "special technical feature".

Since the abovementioned groups of claims do not share any of the technical features identified, a "technical relationship" between the inventions, as defined in PCT rule 13.2 does not exist. Accordingly the international application does not relate to one invention or to a single inventive concept, a priori.

Information on patent family members

International application No.

PCT/AU2004/000970

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
SU	716906	· ·					
US	5967753	EP	0990585				
US	4643643	DE	3417853	GB	2158887	JР	60255598
		NL	8501384	SE	8502372		
US	3912417						

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX